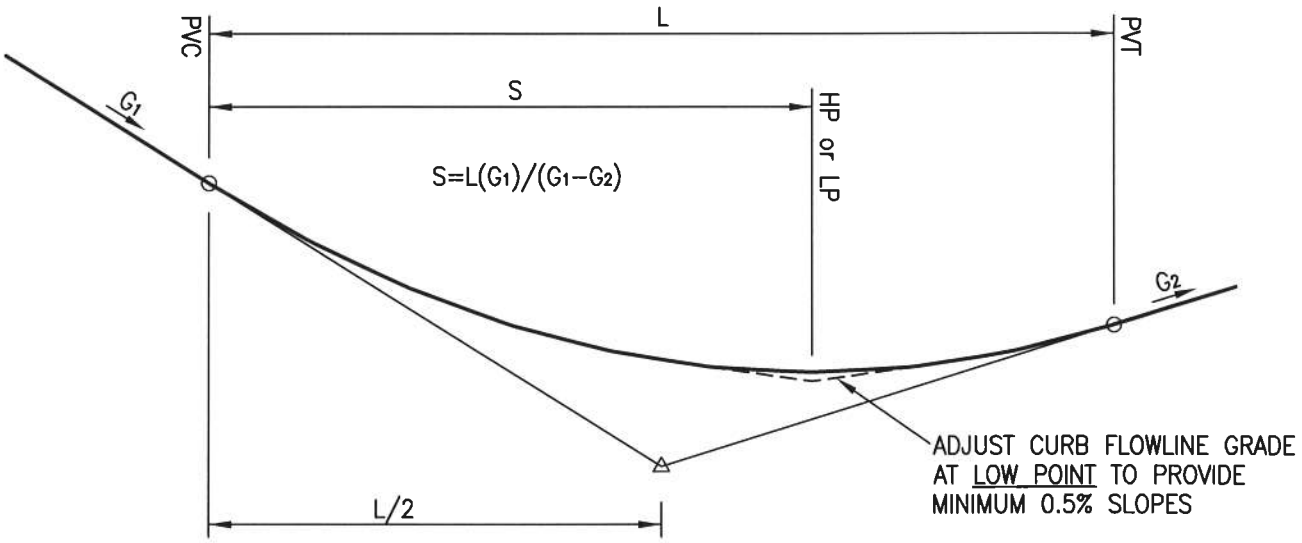
VERTICAL CURVE DESIGN STANDARDS

1) MINIMUM VERTICAL CURVE LENGTH (L) SHALL BE THE ALGEBRAIC GRADE DIFFERENCE (G_1-G_2) MULTIPLIED BY THE K-VALUE SHOWN IN THE TABLE BELOW FOR THE APPROPRIATE DESIGN SPEED. IN NO CASE SHALL A VERTICAL CURVE LENGTH BE LESS THAN 80'.

2) ELEVATION POINTS FOR STAKEOUT SHALL BE COMPUTED AT THE FOLLOWING INTERVALS:
   $K \leq 45$ NO MORE THAN 20'
   $K \leq 35$ NO MORE THAN 10'
   WHERE $K=L/(G_1-G_2)$.

3) VERTICAL CURVES SHALL BE SYMMETRICAL, AS SHOWN IN THE DETAIL BELOW. THIS DETAIL REPRESENTS STREET CENTERLINE PROFILE GRADES. PROFILES OF CURB FLOW LINES SHALL BE ADJUSTED AT LOW POINTS SO AS TO PROVIDE A MINIMUM GRADE OF 0.5% APPROACHING INLETS, DRAINS, GUTTERS, ETC.



K-VALUES (PER AASHTO)

DESIGN SPEED	25	30	35	40	45	50
K-VALUE (CREST VERT. CURVE)	12	19	29	44	61	84
K-VALUE (SAG VERT. CURVE)	26	37	49	64	79	96

APPROVAL	REVISED	TOWN OF EASTON AND EASTON UTILITIES STANDARD DETAILS
TOWN ENGINEER 4/12/11 DATE	AUG 1, 01 FEB 1, 02 FEB 1, 06 OCT 5, 10 JAN 1, 11	VERTICAL CURVE
ISSUED: MAY 1, 1989		STANDARD NO. PW-1.10